

Method and installation for the production of hot-rolled strip having a dual-phase structure

Results of industrial test program

Industrial test production heat	Sample no.	Hot strip thickness	Hot strip width	Strip temperature after test finishing stand T _{fin}	Delivery speed	Holding time	Cooling temperature T _{cool}	Mechanical properties							
								Longitudinal sample piece				Transverse sample piece			
								Yield strength in MPa	Tensile strength in MPa	Ratio yield strength to tensile strength	Fracture elongation in %	Yield strength in MPa	Tensile strength in MPa	Ratio yield strength to tensile strength	Fracture elongation in %
A	A1	2,8	1300	800 - 815	5,6	2,36	300	326	639	0,53	23	317	620	0,51	21
	A2	2,6	1280	800 - 815	5,7	2,32	300-320	323	621	0,52	23	325	623	0,53	21
	A3	2,6	1280	800 - 815	5,7	2,32	300-320	319	616	0,53	27	329	604	0,54	23
B	B1	2,2	1260	800 - 815	6,1	2,16	280-300	-	-	-	-	324	572	0,57	24
	B2	2,1	1254	800 - 815	6,4	2,06	380/315/280	384	584	0,66	18	399	597	0,67	17

Chemical Composition

Heat	%				
	C	Mn	Si	Cr	C _{total}
A	0,068	1,13	0,406	0,014	0,026
B	0,061	1,16	0,371	0,273	0,036

*) Successful operation.
*) Not successful operation (Tensile strength and fracture elongation low).